



ENVIRONMENTAL CONSULTANTS

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**Crawford Station MGP Site  
Chicago, Illinois**

**Weekly Field Progress Report**

Report Date: June 25, 2012

Prepared By: Natural Resource Technology, Inc. (NRT)  
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John M. Nardozzi, PE

Submitted To: Integrys Business Support, LLC (IBS)  
Naren M. Prasad, PE

Activity Period: June 10, 2012 through June 16, 2012

The following summarizes the environmental field activities performed by NRT on behalf of IBS at the former Crawford Station MGP site Time Critical Removal Action (AOC V-W-11-C-981):

<b>Tasks</b>	<b>Environmental Activities</b>
General Description of Work Performed	<p>The following activities were conducted:</p> <ul style="list-style-type: none"><li>• Tecnica had a truck on site on Monday June 11<sup>th</sup>, 2012 to remove stockpiled large debris on site. Tecnica was able to load out 2 truckloads of tree stumps and other large debris for disposal at Laraway RDF.</li><li>• Tecnica excavated Area H down to the design depth of 10 ft. bgs.</li><li>• Tecnica excavated Area HA, Area AA, the southwest extent of Area Q and Area R, the potential removal area south of Area R, Area S and part of Area J and K down to 6 ft. bgs in order to prepare for the excavation of the southern portion of the large City of Chicago sewer.</li><li>• Tecnica applied ORC Advanced<sup>®</sup> (oxygen releasing compound manufactured by Regenesys) on the wall of the excavation in the potential removal area to the west and north of Area A.</li><li>• Tecnica continued to place and compact backfill in Areas E, A and B. Tecnica also initiated backfilling operations in Area G.</li><li>• Tecnica completed backfilling operations in portions of Areas I, L, M and N to the elevation required to remove the sheet pile anchor wall.</li><li>• Thatcher was able to remove all of the struts and walers by Thursday June 14<sup>th</sup>, 2012.</li><li>• Thatcher initiated the removal of the anchor wall in Area I and L on Friday June 15<sup>th</sup>, 2012.</li></ul>

<b>Tasks</b>	<b>Environmental Activities</b>
General Description of Work Performed (continued)	<ul style="list-style-type: none"> <li>Rusmar foam was utilized daily to mitigate odors, and woodchips were utilized as needed for additional odor control throughout the week.</li> <li>Excavated soils were loaded and transported to Waste Management's Laraway Road RDF landfill for disposal. A total of 12,999 tons of material was disposed of at the landfill bringing the overall project total to 169,586 tons.</li> <li>Utilized GPS to locate pertinent items and features.</li> <li>NRT conducted air monitoring activities for PM<sub>10</sub> through the use of DustTraks, 12-hour time-weighted samples for BTEX and Naphthalene through the use of SUMMAs, and real time VOC concentrations using PIDs. Additionally, no odor/dust issues were noted at the perimeter of the site.</li> </ul>
Sampling Activities Performed:	<p>NRT conducted the following sampling activities:</p> <ul style="list-style-type: none"> <li>DustTraks collected particulate data each day and data has been downloaded for analysis.</li> <li>Three post-excavation base samples (EB-86 through 88) were collected in Area G and Area H. These samples will be analyzed for constituents listed in the RAWP for post-excavation.</li> <li>One post-excavation wall samples (EW-27) were collected from the potential removal area where the excavation of Area A was extended to the north. This sample will be analyzed for constituents listed in the RAWP for post-excavation.</li> <li>Four SUMMA canisters were deployed on June 13, 2012, one of which was a duplicate at the north fence line location, and sent to TestAmerica Laboratory for BTEX and naphthalene analysis.</li> </ul>
NRT Field Personnel	Kyle Bareither, Ron Horan, and Chris Musson
Equipment Deployed:	SUMMA Canisters DustTraks PIDs Multi-gas meter
Field Photos	See attached sheets

Additional site activities:

Water is being pumped from the open excavations as needed. Water is sent through the Water Treatment System and discharged into the City of Chicago sewer for discharge into the MWRD system.

Ross DelRosario and Jim Hahnenberg from the USEPA were on site to provide a site tour and project status update to associates with the USEPA Inspector Generals office on June 12, 2012.

On June 12, 2012, John Wierz, a representative from ExxonMobil (adjacent property to the west) phoned in a concern about odors originating from the RAA. NRT and Burns & McDonnell responded by applying additional Rusmar foam and by altering site activities to mitigate odors. John Wierz phoned in again later to state the odors were reduced significantly.

A sample on the northern excavation wall in the potential removal area north of Area A did not meet the post-excavation sampling criteria outlined in the RAWP. Therefore, further excavation of this area will be performed, extending the area approximately 25 ft. to the north. Additional confirmation soil samples will then be collected and analyzed. Tecnica and Burns & McDonnell plan to remove this material at a later date since one of the active haul roads is located in this area.

Work planned for the coming week, June 17, 2012 through June 23, 2012, is as follows:

- Take additional floor and wall samples in Areas I, HA, Q, R and J as they become available.
- Sample amended soil stockpiles to be analyzed for Benzene for disposal purposes as needed.
- Provide environmental oversight for the quality assurance work being performed by Peoples Gas and their sub-contractors.
- Conduct Full Scale Air monitoring consisting of one 12-hour SUMMA can sampling event per week. The days of the 12-hour sampling will be determined to coincide with excavation activities.
- Receive and review post-excavation confirmation, post-amendment, and air sampling data from TestAmerica.

A weekly field progress report will continued to be issued throughout the duration of field activities for this Time Critical Removal Action. A written report summarizing the results and findings of the Removal Action will be provided following completion of all field activities.

A summary of the construction activities as detailed by the Construction Manager have been included with this report as Attachment 1.

Please feel free to contact us if you have any questions.

Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.



Timothy B. Norris, PG  
Geologist

Attachment 1: Burns and McDonnell Construction Management Report

### Field Photos:

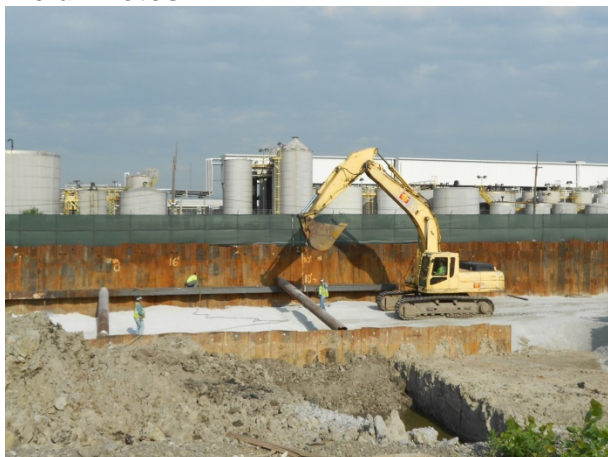


Photo 1: Thatcher removing the struts in Area I.

Direction: Facing west

Photo Date: 6/11/2012

Photo Taken By: KJB



Photo 2: Tecnica loading the swing-gate truck with tree stumps and other large debris.

Direction: Facing southwest.

Photo Date: 6/11/2012

Photo Taken By: KJB



Photo 3: Backfilling operations in Areas M and N.

Direction: Facing west.

Photo Date: 6/12/2012

Photo Taken By: KJB



**Field Photos (continued):**



Photo 4: Technica utilizing Rusmar foam to mitigate odors originating from the material excavated within Area S.

Direction: Facing south.

Photo Date: 6/13/2012

Photo Taken By: CJM



Photo 5: Technica excavating Area S down to the crown of the large City of Chicago sewer.

Direction: Facing west.

Photo Date: 6/14/2012

Photo Taken By: CJM



Photo 6: Technica placing woodchips to mitigate odors originating from material along the large City of Chicago sewer.

Direction: Facing east.

Photo Date: 6/15/2012

Photo Taken By: RJH



1431 Opus Place, Suite 400  
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Week of: 6/10/12 to 6/16/12

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**Subject: Site Remediation – Construction Management  
Peoples Gas – Former Crawford Station**

**Burns & McDonnell Personnel Onsite**

Site Construction Manager

- Bal Berena

Site Remediation Supervisor

- Bernard Gill

Construction Manager

- Dave D'Armond

Others

- Chad Hawthorn

**Subcontractors Onsite**

- Tecnica Environmental Services
- Thatcher Foundations
- Interra
- Allied Measurements

Others

- Natural Resource Technology (NRT)
- Waste Management (Dave Weber, Steve Jiskra)  
Vito Pesoli (MT)

**Integrays Peoples Gas Personnel Onsite**

- None

**Miscellaneous Visitors**

- Ross del Rossario (USEPA)
- James Hahnenberg (USEPA)
- Raj Patel (Interra)
- Dave Huizenga (Allied Measurements)
- Mark Norris (North Shore Environmental)

**Site Activities**

**BURNS & MCDONNELL**

- Managed site activities with Tecnica Environmental Services, Allied Measurements, Interra, North Shore Environmental Services and Thatcher Foundations;
- Escorted USEPA during their site visit;
- Issued truck tracking forms for all excavated soils from Areas AA, HA, H, J, K, and I;
- Tracked 679 loads (12,998.72 tons) for Direct soils disposal at Laraway Landfill;
- Received 535 loads of CA-6 (12,024.1 tons) and 3 loads of CA-1 (67.73 tons) for backfill in the south half of the Earth Retention System (ERS) and areas D, F, FA, C, E;
- Received 2 loads (180 cubic yards) of wood chips to control odors;
- Pumped and discharged 4,685 gallons of treated excavation water to MWRD;
- Participated in daily subcontractor pre-task analysis safety meetings on site;
- Conducted periodic health and safety air monitoring in excavation area with no significant PID readings from the site activities;

- Held the weekly site construction meeting with Supervisors of Subcontractors, Waste Management; and
- Monitored site conditions for traffic, dust, odors, and overall safety.

#### **TECNICA ENVIRONMENTAL SERVICES**

- Excavated and loaded out soils from areas AA, HA, H, J, K, and I;
- Controlled odors through foaming and wood chips use;
- Actively suppressed dust on site through watering and haul road maintenance;
- Operated and maintained truck scale;
- Continuously monitored air quality in south half ERS during work in sheeting area;
- Assisted BMcD in water treatment system operation and maintenance;
- Continuously monitored site fencing, silt fence, and erosion control materials;
- Assisted NRT collecting samples in areas S and T;
- Performed routine maintenance on decon pad, tracking pad, and haul roads;
- Pumped water from area south of original R;
- Backfilled south half of the ERS up to bracing level; and
- Assisted Thatcher during bracing removal of south half of ERS.

#### **ALLIED MEASUREMENTS**

- Performed scheduled monthly truck scale calibration and maintenance.

#### **NORTH SHORE ENVIRONMENTAL SERVICES**

- Provided assistance in waste water treatment system operation and maintenance.

#### **THATCHER FOUNDATIONS**

- Removed bracings and anchor wall in south half of the ERS.

#### **INTERRA**

- Performed compaction tests on CA-6 during backfill of areas A, I, and D.

#### **Changes to Scope of Work**

- Continue excavating to the north of original A; and
- Adjusted final excavation depth for area H to 14 feet.

#### **Open/Outstanding Items**

- Due to odor complaint from property to west of site, a misting system is being designed by NRT to be implemented along the top of the west property fence. Additional odor suppression activities were increased for odor control, which included ordering 40 drums of wintergreen scented foam.

#### **Anticipated Activities for the Week of June 17, 2012**

- Continue amending soil with bed ash to lower benzene concentration.
- Finish backfilling north half of sewer;
- Excavate and load out in areas H, HA, I, J, K, and AA;
- Continue backfilling areas B, C, E, G, F, FA, and D and south half of the ERS; and
- Final bracing and anchor wall removal in south half of the ERS area.



**Crawford Station Site:**

**Remediation**

Date: June 8, 2012

Description: Looking down at a foot of FA 2 sand placed on top of Chicago Sanitary Sewer as requested by the Chicago Department of Water.



**Crawford Station Site:**

**Remediation**

Date: June 11, 2012

Description: Coal tar seeping from side walls of area A at the limits of the Potential Dig Area boundaries. Subsequent sample results showed that excavating needs to continue to the north.





**Crawford Station Site:**

**Remediation**

Date: June 12, 2012

Description: View from area R looking southwest. Tecnica actively controlled odors through the use of wood chips and foaming, as a stockpile is being loaded out for disposal.



**Crawford Station Site:**

**Remediation**

Date: June 13, 2012

Description: With backfill done up to the bracing level, Thatcher continued removing bracing in south half of the Earth Retention System (ERS) area, looking west.